

EXECUTIVE SUMMARY

The Department of Ecology's Technical Resources for Engineering Efficiency (TREE) team worked with SNBL USA, Ltd. to identify ways to reduce their water use, material use, and solid waste generation. Located in Everett, SNBL USA, Ltd. provides preclinical services under contract with various pharmaceutical and biomedical research companies. The TREE team visited the facility several times to observe the current process activities, gather data and identify potential opportunities. This report presents the TREE team's evaluation of this facility's best opportunities for reducing water use, material use, waste generation, and associated costs.

According to the City of Everett Utilities water bills, SNBL USA, Ltd. used about 5.9 million gallons of water between August of 2002 and 2003. Estimated savings from the opportunities list below could reduce water use 20%, saving \$6,200 in water and sewer costs. Additionally, other opportunities targeting biscuit size and solid waste handling could save over \$5,000.

TABLE 1: QUANTIFIED OPPORTUNITIES

Opportunity	Total One Time Investment Costs	Total Annual Savings	Water Use	
			Gallons Reduced	Purchase Cost Savings
Squeegee		\$2,600	488,900	\$600
Washer		\$3,100	587,700	\$700
Spray Nozzles	\$30	\$90	17,900	\$20
Material Size		\$4,400		
Boiler Blowdown		\$250	46,000	\$60
Landscaping		\$200	126,300	\$200
Recycle Plastic Jugs		\$10		
Total	\$30	\$10,650	1,266,800	\$1,580